

PHYSICS >> Thermodynamics

Q 1 In Thermodynamics zeroth law is related with

A Work

B Energy

C Thermal equilibrium

D Entropy

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Q2

The angle through which a body moves is called:

A

Angular displacement

B

Angular velocity

C

Angular acceleration

D

None of these

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Q 3

When $N_s > N_p$ then transformer is

A

step up

B

step down

C

primary

D

secondary

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Q 4

The SI Unit for resistance is?

A

Ohm

B

Ampere

C

Watt

D

Volts

3

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Q 5

Work done by non conservative force is

A

Reversible

B

Non-Reversible

C

can be both

D

none of them

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Q 6

Rectifier is a device which converts

A

AC to DC

B

DC to AC

C

AC to triangular current

D

DC to triangular current

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Q 7

An electron is held within electric field. What happens when electron is released?

A

it moves in the direction of electric field

B

it accelerates in the direction of electric field

C

it moves in the direction opposite to electric field

D

it accelerates in the direction opposite to electric field

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Q 8

Centrifuge is used to purify

A

U

B

H

C

O

D

N

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Q 9

Critical angle is the angle of incidence in the denser medium for which the angle of refraction in the rarer medium is equal to:...

A

0 deg

B

angle of incidence

C

twice the angle of incidence

D

90 deg

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Q 10

The SI Unit of electric charge is?

A

Coulomb

B

Ampere

C

Hertz

D

Volt

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Q 11

He-Ne laser light has wavelength of

A

RED

B

YELLOW

C

BLUE

D

ORANGE

10

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Q 12

Electron charge in accelerating motion will produce

A

electric field

B

magnetic field

C

EM waves

D

none of these

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Q 13

Velocity is a

A

tensor

B

vector

C

scalar

D

None of these

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Q 14

Beats can be used for:

A

counting the heart beat

B

tuning a string instrument

C

measuring frequency of pendulum

D

none of above

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Q 15

A half wave rectifier is equivalent to

A

Clamper

B

Clipper

C

Clamper circuit with negative bias

D

Clamper circuit with positive bias

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Q 16

The resistance of a wire on increasing its temperature will

A

Increase with a rise in temperature

B

Decrease with a rise in temperature

C

Will remain the same

D

Depends upon the altitude of experimentation

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Q 17

You have three capacitors and a battery. In which of the following combinations of the three capacitors is the maximum possible energy stored when the combination is attached to the battery?

A

in parallel

B

in series

C

either way because both combinations have the same capacitance

D

we can not determine, because presence of resistance in the circuit determines capacitance

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Q 18

The graphical representation of Ohm's law is

A

Hyperbola

B

Ellipse

C

Parabola

D

Straight line

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Q 19

Lenz's law provides information about direction of

A

inductance

B

induced current

C

induced flux

D

induced magnetic field

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Q 20

A charged particle is moving on circular path with velocity v in a uniform magnetic field B , if the velocity of the charged particle is doubled and strength of magnetic field is halved, then radius becomes

A 8 times

B 2 times

C 4 times

D 16 times

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Q 21

The Davisson Germer experiment is used to explain

A

interference

B

polarization

C

diffraction

D

none of these

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Q 22

Angular velocity is also called as

A

Instantaneous velocity

B

Rotational velocity

C

Tangential velocity

D

Linear velocity

21

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Q 23

Half wave rectifier passes only

A

lower half cycle

B

upper half cycle

C

both cycles

D

none of them

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Q 24

Which of the following substances cannot be emitted by radioactive substances during their decay?

A

protons

B

neutrinos

C

helium nuclei

D

electrons

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Q 25

A stone of 1 kg is thrown upward it reaches a max height of 5 m , work done by the gravity is

A

50 J

B

49 J

C

-49 J

D

55 J

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Q 26

A solenoid 15.0 cm long has 300 turns of wire, a current 5 A flows through it. The magnitude of magnetic field inside the solenoid is

A

$$1.37 \times 10^{-7} \text{ W/m}^2$$

B

$$1.37 \times 10^{-5} \text{ W/m}^2$$

C

$$1.37 \times 10^{-1} \text{ W/m}^2$$

D

$$1.37 \times 10^{-2} \text{ W/m}^2$$

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Q 27

The successive distance between two crests is called?

A

time period

B

wavelength

C

Wave speed

D

Frequency

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Q 28

if velocity varies with time in quadratic manner then acceleration

A

constant

B

zero

C

linearly varying

D

varies as t^3

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Q 29

The nuclear forces are considered as

A

strong force

B

weak force

C

electromagnetic force

D

all of these

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Q 30

The value of permittivity of free space is:...

A

$$8.85 \times 10^{-12} \text{ C}^2 / (\text{N} \cdot \text{m}^2)$$

B

$$8.85 \times 10^{-12} (\text{N} \cdot \text{m}^2) / \text{C}^2$$

C

$$9.9 \times 10^{-12} \text{ C}^2 / (\text{N} \cdot \text{m}^2)$$

D

$$9.9 \times 10^{12} \text{ C}^2 / (\text{N} \cdot \text{m}^2)$$

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Q 31

An object is moving at constant speed, which of the following is always true:...

A distance is greater than displacement

B distance is lesser than displacement

C distance is equal to displacement

D we cannot answer

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Q 32

If 1.002×10^6 J of thermal energy is required to melt some ice at its melting point, what is the mass of ice that melts? Specific latent heat of fusion of ice is 334 J/g

A 1 kg

B 2 kg

C 3 kg

D 4 kg

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Q 33

The radioactive waste is used as ____

A

fuel

B

nuclear medicine

C

crops fertilization

D

none of these

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Q 34

If Q , E and W are the parameters in cyclic process then

A

$W=0$

B

$Q=0=W$

C

$E=0$

D

$W=0$

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Q 35

Spectrum from H atom is

A

line

B

continuous

C

band

D

none of these

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Q 36

A standing-wave pattern is formed when the length of the string is:

A

an odd multiple of quarter wavelength

B

an integral multiple of quarter wavelength

C

an integral multiple of wavelength

D

an integral multiple of half wavelength

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Q 37

Half life of Au-198 is 2.7 days. What will be the average life?

A

1.9 days

B

3.9 days

C

2.9 days

D

4.9 days

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Q 38

If momentum is increased by 20% then K.E. increase by :

A

0.44

B

0.55

C

0.66

D

0.77

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Q 39

Light of wavelength 450 nm is incident on a diffraction grating on which 5000 lines/cm have been ruled. Determine the angle corresponding to third order.

A 13

B 26

C 42.5

D 39.5

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Q 40

Existence of photon was confirmed by:

A

Compton

B

De' broglie

C

Einstein

D

Max planck

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Q 41

Calculate the mutual inductance between two coils if a current 10 A in the primary coil changes the flux by 500 Wb per turn in the secondary coil of 200 turns.

A 10H

B 10000H

C 100H

D 1000H

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Q 42

Which rays need medium to travel

A

x-rays

B

beta rays

C

gamma rays

D

no radiation need medium to travel

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Q 43

Transformer is based on the theory of

A

self inductance only

B

mutual inductance

C

Capacitive effect

D

all of these

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Q 44

What force provides the centripetal force to planets moving around the sun?

A coulomb force

B gravitational force

C magnetic force

D none of these

43

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Q 45

One coulomb charge is carried by:....

A

 6.25×10^{18}

B

one electron

C

one proton

D

 1.6×10^{19}

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Q 46

Value of current in a short circuit is _____

A

Infinite

B

zero

C

minimum

D

maximum

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Q 47

An ideal gas of N molecules are enclosed in a container at a constant pressure p . The graph between volume of gas and its absolute temperature is a straight line. What is the gradient of the graph?

A $\frac{NR}{p}$

B $\frac{NR}{p}$

C $\frac{Nk}{p}$

D $\frac{Nk}{p}$

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Q 48

To get a peak load voltage of 40V out of a bridge rectifier, what should be the approximate rms value of secondary voltage?

A

0V

B

14.4V

C

28.3V

D

56.6 V

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Q 49

If a car moves from 15 m/s to 5 m/s in 10 sec then average acceleration is

A

 1 m/s^2

B

 2 m/s^2

C

 5 m/s^2

D

 10 m/s^2

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Q 50

What is the power of a bulb if it is operated at 220V and the current in the circuit is 1.5 Amp

A

330 watt

B

430 watt

C

530 watt

D

500 watt

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Q 51 Where does the energy lost by fast moving electron goes :

A Appears as photon

B Appears as electron - positron pair

C Appears as its K.E.

D It vanishes

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Q 52

KE of body is increased by 44 %, what is the percentage increase in the momentum

A

10 %

B

20 %

C

30 %

D

44 %

51

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Q 53

A circular loop of area 0.05 m^2 rotates in a uniform magnetic field of 0.2 T . If the loop rotates about its diameter which is perpendicular to the magnetic field, find flux linked with loop when its plane is inclined 60° to the field

A 0.01 wb B 0 Wb C $8.66 \times 10^{-3} \text{ Wb}$ D 0.86 wb

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Q 54

A heater is used for 5 minutes to heat 500 g of water from 20°C to 50°C. What is the power of heater? Specific heat capacity of water is 4.2 J/g°C.

A 1260 W

B 12.6 kW

C 210 kW

D 12.6 W

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Q 55

Wavelength of a sound wave in air is 10 cm, what is the frequency of the sound wave?

A

33 Hz

B

330 Hz

C

3300 Hz

D

33000 Hz

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Q 56

One of the major reasons for heat loss in transformer is

A Radiation loss

B Convection loss

C eddy current loss

D none of these

55

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Q 57

Manufacturing of Ammonia by Haber's process is an

A

endothermic reaction

B

exothermic reaction

C

irreversible

D

Slow

56

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Q 58 Acetic acid derived from the word 'Acetum' which means_____?

A Acetic acid

B Bitter

C Citric

D Vinegar

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Q 59

Only those substances are written in Ion Electron Method

A

which are oxidizing

B

which are reducing

C

which are not taking part in reaction

D

Which will take part in reaction

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Q 60

If both alkyl groups attached to carbonyl in ketone are same then it is called as _____?

A

Mixed

B

Unsymmetrical

C

Symmetrical

D

None of these

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Q 61

A piston in a cylinder is a part of

A

System

B

Surroundings

C

Boundary

D

None of These

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Q 62

When an electron is added, energy is released, so electron affinity is given the

A positive sign

B negative sign

C neutral

D delta sign

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Q 63 H-bonding is a type of _____?

A Chemical bonding

B Ion dipole force

C Dipole-dipole force

D Polar force

62

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Q 64 Geometrical isomerism arises due to_____?

- A Rotation around a double bond
- B Restriction of rotation around a single bond
- C Restriction of rotation around a double bond
- D Due to double bond

63

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Q 65

With the increasing molecular mass of hydrocarbons, they changes from

A gases to liquids

B liquids to solids

C both A & B

D none of these

64

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Q 66

The region where probability of finding the electron is maximum is called as

A

Nucleus

B

Atom

C

Orbital

D

Nodal plane

65

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Q 67

The change in concentration of reactants or products per unit time is

A

rate constant

B

reaction speed

C

Rate of a reaction

D

All of these

66

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Q 68

In IUPAC nomenclature alkyl halides are named as_____?

A

Alkyl Halogens

B

HalogenoAlkanes

C

Haloalkanes

D

Alkyl halides

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Q 69

Which of the following compound is present in camphor and menthone?

A

Aldehyde

B

Alcohol

C

Esters

D

Ketones

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Q 70

What is the relationship between boiling point and External pressure?

A

Boiling point increases if external pressure is increased

B

boiling point increases if external pressure decreases

C

Boiling point is not affected by external pressure

D

Boiling point decreases if external pressure increased

69

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Q 71

There is one lone pair present in H_3O^+ , it cannot act as _____?

A Electrophile

B Lewis acid

C Nucleophile

D Strong acid

70

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Q 72

When two atoms bonded to form a stable compound, the attractive forces will ___repulsive forces and the potential energy of the system will be ___-

A recessive, higher

B dominate, minimum

C dominate,maximum

D recessive, lower

71

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Q 73

Hydrogenation of alkenes takes place in the presence of ____?

A

Nickel

B

Gold

C

Palladium

D

Raney Nickel

72

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Q 74

Aldehydes are obtained by the oxidation of which of the following ?

A

Secondary alcohols

B

Tertiary alcohols

C

Dihydric alcohol

D

Primary alcohols

73

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Q 75

Fractions of Crude petroleum can be obtained by using_____?

A

Destructive distillation

B

Fractional distillation

C

Vacuum distillation

D

Distillation

74

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Q 76

The enthalpy change of a reaction which involve the formation of atom from its elements at S.T.P is called as

A

Enthalpy of formation

B

Enthalpy of combustion

C

Enthalpy of neutralization

D

Enthalpy of sublimation

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Q 77

Carbonates of sodium are stable but carbonates of lithium are less stable because of

A Low electronegativity

B Low electro positivity

C Low charge density

D Not known yet

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Q 78 Acyclic hydrocarbons are also called as_____?

A Closed chain hydrocarbons

B Open chain hydrocarbons

C Ring compounds

D Alicyclic compounds

77

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Q 79

Standard Reduction potential is found by dipping the electrode in its own ion with molarity equals to

A

0.1

B

1

C

1.5

D

0

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Q 80

All the three p-orbitals have same energy in the absence of magnetic field and are called _____ orbital's

A generated

B delocalized

C degenerated

D localized

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Q 81

The relative abundance of isotopes of elements is measured by

A atomic spectroscopy

B ionic spectroscopy

C mass spectroscopy

D mass spectrometry

80

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Q 82

First Law of thermodynamics is

A

$$\Delta E = \Delta H$$

B

$$\Delta E = q + p$$

C

$$\Delta E = q + w$$

D

$$\Delta E = P\Delta V$$

81

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Q 83

London dispersion forces are the only forces present among

A

atoms of helium in gaseous state at high temperature

B

molecules of water

C

molecules of solid iodine

D

molecules of HCl gas

82

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Q 84

Energy can be transferred to a system by

A

Heat

B

Work

C

Heat & Work

D

Force

83

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Q 85

Acetaldehyde in the presence of $\text{Con.H}_2\text{SO}_4$ undergoes _____?

A

Dehydration

B

Polymerization

C

Condensation

D

Oxidation reaction

84

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Q 86

when water freezes at 0°C , spaces occur between its molecules which results in its ____

A decrease in volume

B decrease in density

C increase in density

D increase in volume

85

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Q 87

Which of the substance has the highest melting point?

A

 CO_2

B

 H_2O

C

 NaCl

D

 MgO

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Q 88

1 Pascal is equal to

A

 1 Nm^{-2}

B

76 trr

C

1 1325 pa

D

all of these

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Q 89

The melting points and boiling points up to the middle of 3d- series

A

Increases

B

Decreases

C

Remain same

D

No regular trend

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Q 90

In chemical combination of H-atom with sodium. It gains an electron but in case of HF, H-atom

A

gains $2e^-$

B

lose $1e^-$

C

lose $2e^-$

D

gain $2e^-$

89

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Q 91

Which one of the following benzene molecule have?

A

Two double bonds

B

Delocalized pi-electron charge

C

Three double bonds

D

One sigma bond

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Q 92

Which one is the major product when ethene react with Br_2 in H_2O ?

A

Dibromoethane

B

Bromoethane

C

Hydroxy Bromoethane

D

Hydroxy Bromoethane

91

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Q 93

Which of the following alkyl halide give S_N1 reactions?

A

1-chloropropane

B

2-chloropropane

C

n-butyl chloride

D

2-methyl,2-chloropropane

92

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Q 94

Which of the following shows isomerism?

A

Methane

B

Ethane

C

Propane

D

Butane

93

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Q 95

Energy changes in cyclic process is always

A

Unity

B

Zero

C

Positive

D

Negative

94

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Q 96

The ionization energy of group __shows abnormal trend

A

3A & 4A

B

5A & 6A

C

6A & 4A

D

3A & 6A

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Q 97

Enzymes are _____?

A

Non-specific in action

B

Very reactive

C

Highly specific

D

Volatile

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Q 98 Solubility of carboxylic acids _____?

- A Decreases with increase of volume
- B Decreases with increase in molecular mass
- C Increases with increase in molecular mass
- D None of these

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Q 99

Crystalline Solids are made up of

A

Atoms

B

Molecules

C

Ions

D

All of these

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Q 100

Heavy water contain isotope of Hydrogen

A

protium

B

deuterium

C

tritium

D

both A & C

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Q 101

Which instrument is used to measure the vapour pressure of a liquid?

A

Barometer

B

Manometer

C

Thermometer

D

Sphygmometer

100

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Q 102

Organic compounds obtained from

A

living things

B

Non living

C

fossils

D

sea's water

101

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Q 103

Fumaric acid is converted into _____ in the presence of fumarase enzyme.

A Oxalic acid

B Phthalic acid

C Maleic acid

D Malonic acid

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Q 104

In Down Cells Cathode is made up of

A

Graphite

B

Copper

C

Iron

D

Inert material

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Q 105

If K_p and K_c have same values Δn will be

A

Maximum

B

Minimum

C

Zero

D

Negligible

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Q 106

Kekule structure of benzene failed to explain:

A

Benzene reactivity

B

That benzene has dual character

C

That benzene has less heat of formation

D

All

105

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Q 107 H-Bonding act as a bridge between _____?

A Two electronegative atoms

B Electronegative and H atoms

C Two H atoms

D None of these

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Q 108

Which of the following is an example of Tertiary alcohols?

A 2 methyl-3-ethylpentane

B 3-ethyl-3-hexanol

C 2-methyl-4-hexanol

D isopropyl alcohol

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Q 109

It is not possible for us to measure exact position and exact momentum of electron simultaneously is the statement of

A de-Broglie

B Mosley

C Heisenberg

D Neil Bohr

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Q 110

S-S bond is present in which of the ion pairs

A

S₂O₇²⁻, S₂O₃²⁻

B

S₄O₆²⁻, S₂O₇²⁻

C

S₂O₇²⁻, S₂O₈²⁻

D

S₄O₆²⁻, S₂O₃²⁻

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Q 111

The central atom along with ligands is called

A

Complex ion

B

Coordination sphere

C

Ligand

D

Complex compound

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Q 112 Which gases are used as mixture for breathing in sea?

A Oxygen and nitrogen

B Carbon dioxide and oxygen

C Helium and oxygen

D Helium and hydrogen

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Q 113

What type of molecule is Chlorophyll?

A

Inorganic

B

Cationic

C

Anionic

D

Organic

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Q 114

The gap in the myelin sheath between adjacent Schwann cells is called?

A

dendrite

B

soma

C

node of ranvier

D

stroma

113

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Q 115

Which of the following bacteria do not commonly have a flagella?

A

cocci

B

bacilli

C

streptobacilli

D

vibrio

114

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 116

In biennials and perennials, low temperature stimulus is not received by which of the following?

A Shoot apex of mature stem

B Embryo of the seed

C Leaves of the plants

D all of these

115

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Q 117

The genetic change in a population caused by natural selection is called?

A

polymorphism

B

specialization

C

gene linkage

D

adaptation

116

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Q 118

What percentage of water is found in brain cells?

A

70

B

80

C

85

D

90

117

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Q 119

If a genetic shift occurs within a population the mutant allele becomes?

A genotype

B phenotype

C wild type

D all of these

118

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Q 120

An increase in plant girth due to activity of which of the following?

A

Cork cambium

B

Vascular cambium

C

pith

D

both a and b

119

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 121

Irreversible modifications require the synthesis of which of the following?

A

enzymes

B

carbohydrates

C

vitamins

D

proteins

120

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Q 122

The path taken by the nerve impulses in a reflex is called a

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

121

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Q 123

Mumps and Measles are caused by which virus?

A

adenovirus

B

Pox virus

C

influenza Virus

D

paramyxoviruses

122

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 124

All enzymes are:

A globular proteins

B Fibrous proteins

C Glycoproteins

D Lipoproteins

123

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 125 In parthenocarpy which levels are high in ovaries?

A gibberellins

B cytokinins

C auxins

D all of these

124

SKIPPED QUESTIONS 

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Next Question 

Q 126

The attraction between water molecules and cell wall of xylem is termed as:

A

cohesion

B

tension

C

adhesion

D

imbibition

125

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Q 127

Cellular organelles that interact with hydrogen peroxide are called?

A

Glyoxysomes

B

Lysosomes

C

Ribosomes

D

Peroxisomes

126

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 128

In all plants the major sites of photosynthesis are?

A

Leaf

B

Stems

C

Roots

D

Branches

127

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Q 129

What is Hepatitis D also known as?

A

Serum hepatitis

B

Infectious hepatitis

C

Bacterial hepatitis

D

Delta hepatitis

128

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 130 Assymetrical body is a feature of phylum _____.

A Annelida

B Arthropoda

C Porifera

D Cnidaria

129

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Next Question 

Q 131 Hemoglobin synthesis takes place in all except____

A reticulocytes

B erythrocytes

C basiophilic erythroblasts

D none of these

130

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Next Question 

Q 132

Which of the following fishes contained lungs?

A

lamprey

B

perch

C

plaice

D

dipnoi

131

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 133

The fluidity of the plasma membrane increases with which of the following?

A

Increase in saturated fatty acids in the membrane

B

Increase in glycolipid content in the membrane

C

Increase in phospholipid content in the membrane

D

Increase in unsaturated fatty acids in the membrane

132

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 134

Which structure differentiates eukaryotic and prokaryotic cells?

A Ribosomes

B cell wall

C cell membrane

D nucleus

133

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 135

Development of an egg into zygote without fertilization is called?

A

Parthenocarpy

B

Apomixis

C

Parthenogenesis

D

all of these

134

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 136

During muscle contraction, which parts of a sarcomere change in length?

A H zone and myosin

B H zone and actin

C I band and A band

D H zone and I band

135

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Q 137

The largest lobe of the brain is:

A

Frontal

B

Parietal

C

Temporal

D

Occipital

136

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 138

When was the presence of small filter passing, ultramicroscopic agent in yellow fever disease was discovered?

A

1989

B

1901

C

1900

D

1889

137

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 139 Which of the following is evidence of a common ancestor?

A Morphological similarities

B Fossil record

C Vestigial characteristics

D all of these

138

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Next Question 

Q 140

Flagella might have arisen through the ingestion of which of the following?

A Cyanobacteria

B Chlamydomonas

C Paramecium

D Spirochetes

139

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 141

Study of fossils is called

A

mammalogy

B

palaeontology

C

herpetology

D

ornithology

140

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 142

If the enzyme change the active site the rate of reaction will undergo which of the following changes?

A

decrease

B

increase

C

remains same

D

none of these

141

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 143

What is the structure in prokaryotic cells that often holds antibiotic resistance genes?

A

Nucleus

B

plasmid

C

mitochondria

D

both a and b

142

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 144

This carries the egg to the uterus.

A

Fallopian tube

B

ovary

C

cervix

D

vagina

143

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 145

80% of the food of sponges consists of which of the following?

A Detrital organic particles

B Zooplankton and small animal

C Phytoplanktons

D all of these

144

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 146

What type of the phage is a T2 Phage?

A

ssDNA Phage

B

ss RNA Phage

C

dsDNA phage

D

ds RNA Phage

145

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 147

All of the following coelenterates show alternation of generation except?

A hydra

B obelia

C aurellia

D all of these

146

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Q 148

A pea plant with yellow seed was crossed to a plant having green seeds. What will happen in F₁; if plants are true breeding?

A Half of seeds will be yellow

B All the seeds will be green

C Both will be present in ratio of 1:2:1

D All seeds will be yellow

147

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 149 Stomata cover only what portion of the leaf surface?

A 10%

B 50%

C 1-2%

D 0.3 to 0.4%

148

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Q 150

Bacteriochlorophylls does not include which of the following?

A Chlorophyll e

B Chlorophyll b

C chlorophyll c

D all of these

149

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 151

Animal fats are in which state at room temperature?

A solid

B liquid

C gas

D plasma

150

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 152

The brain is protected and brain tissue is provided with nutrients and oxygen by?

A

cranium

B

meninges

C

skull

D

ventricles

151

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Q 153

Most multicellular organisms are which of the following?

A haploid

B diploid

C single nucleus

D none of these

152

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 154 HIV glycoprotein is composed of ____ subunits

A 11

B 12

C 13

D 14

153

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Next Question 

Q 155

The number of water soluble vitamins is?

A

3

B

6

C

9

D

12

154

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 156 Thymus is found in human body in ---

- A in the medulla oblongata
- B in the mediastinum of the upper thorax
- C both A and B are correct
- D None of these

155

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 157

Due to the insolubility of large organic molecules, what function do they mainly perform?

A

Structure of cells

B

enzymatic function

C

Metabolic function

D

both a and b

156

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Q 158

Fertilization of ovum occurs during which of the following?

A

in uterus

B

in ovary

C

In distal part of oviduct

D

In proximal part of oviduct

157

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 159

What is the final product of the krebs cycle?

A

malate

B

succinate

C

oxaloacetate

D

fumarate

158

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 160

The outer portion of spinal cord is composed of:

A

White matter

B

Gray matter

C

Cell bodies

D

non-myelinated nerve fibres

159

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 161

The oviduct generally called:

A

fallopian tube

B

uterine tube

C

Both A and B

D

uterus

160

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 162

Which of the following is involved in sleeping and waking?

A thalamus

B brain stem

C hypothalamus

D cerebellum

161

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 163

Each skeletal muscle fiber is controlled by a neuron at a single _____.

A

Synaptic cleft

B

neuron

C

neuromuscular junction

D

Both B and C

162

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 164

_____ is a competitive inhibitor of succinic dehydrogenase.

A

Malonic acid

B

Malic acid

C

Fumaric acid

D

Acetic acid

163

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 165

A key property of a living being is that it contains _____ for making its protein

A amino acids

B mitochondria

C mRNA

D ribosomes

164

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Q 166

The product of succinic acid by the action of the enzyme is which of the following?

A fumaric acid

B malonic acid

C citric acid

D pyruvic acid

165

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Q 167

Which of these functions will be affected if the medulla oblongata is damaged?

A

Thermoregulation

B

Vision

C

Memory

D

Tactile sensation-response when pricked with a needle

166

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 168

The animals that have features of both mammals and reptiles are?

A

duckbill platypus

B

spiny anteater

C

wolves

D

both a and b

167

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Q 169

Genes for colour blindness form _____ linkage group on human _____ chromosome

A

2,Y

B

1,Y

C

2,X

D

1,X

168

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 170

To synthesis 10g of glucose, how much energy is essentially required?

A

727

B

712

C

719

D

717.6

169

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 171

Complete breakdown of glucose molecule takes place in which of the following?

A

Alcoholic fermentation

B

Lactic acid fermentation

C

aerobic respiration

D

none of these

170

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Q 172

The optimum pH for the functioning of the enzyme pepsin is?

A

2

B

3

C

4

D

5

171

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 173

The last common ancestor of humans is known to be which of the following?

A

Homo neanderthalensis

B

Lemuroidea

C

Dromaeosaurus

D

Pan troglodytes

172

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 174

Structures that were once functional in the past but no longer serve a purpose due to evolutionary adaptations and physiological changes are referred to as?

A

vestigial

B

analogous structures

C

homologous structures

D

none of these

173

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Q 175

In humans, fertilization involves the addition of chromosomes from the sperm and the egg. The resulting cell is called a?

A zygote

B egg

C embryo

D fetus

174

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Q 176

The uterine tube opens into:

A

uterus

B

ovary

C

cervix

D

oviduct

175

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 177

Which of the following plays vital role in defense activity of macrophages?

A Lysozymes

B Lysosomes

C mitochondria

D nucleus

176

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Q 178

Cytoplasmic streaming movement causes flow of all of the following except?

A

Glucose and salts

B

mitochondria

C

Golgi

D

RER

177

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 179

Which of the following movements are possible in pivot joint?

A

flexion and extension

B

adduction and abduction

C

rotation

D

extension flexion and rotation

178

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 180

Each Kreb's cycle forms how many molecules of NADH?

A

3

B

2

C

4

D

1

179

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 181

Choose the correct spelling of the word

A around

B arond

C arund

D around

180

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 182

He _____ books these days.

A sells

B sell

C has sold

D sold

181

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of articles and prepositions

Q 183

_____ butter is melting

A

A

B

An

C

The

D

no article

182

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Demonstrate control of tenses and sentence structure

Q 184

His son _____ (go) to school regularly.

A

go

B

goes

C

going

D

gone

183

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Demonstrate control of tenses and sentence structure

Q 185 Sara denied _____ (leave) the car window open.

A leave

B leaving

C left

D to have left

184

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 186

Choose the correct sentence.

A I completed the homework for English, History, Math and Science only in the span of an hour.

B I completed the homework for English History, Math, and Science only in the span of an hour!

C I completed the homework for english, history, math, and science only in the span of an hour.

D I completed the homework for English History Math and Science only in the span of an hour.

185

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Next Question >

Demonstrate correct use of subject-verb agreement

Q 187 A bouquet of flowers _____ required for the event.

A are

B have

C has

D is

186

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 188

There has been an increase in the price of oil in _____ weeks.

A just passed

B some

C yesteradys

D recent

187

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Next Question >

Demonstrate correct use of articles and prepositions

Q 189 Most big cities have _____ university.

A a

B an

C the

D no article

188

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Demonstrate control of tenses and sentence structure

Q 190 By the next month, we shall _____ (complete) the project.

A has completed

B completed

C completed

D have completed

189

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Demonstrate control of tenses and sentence structure

Q 191 Children usually _____ a noise.

A made

B makes

C are making

D make

190

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Next Question 

Comprehend key vocabulary

Q 192 permissive

A relaxed

B lenient

C ungrudging

D immoral

191

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 193

_____ his parents allow him or not, John intends to go to the party.

A Whether

B While

C Although

D Despite

192

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Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 194

We must go (A)/ and congratulate him for (B)/ his brilliant (C)/ performance. (D)

A

We must go

B

and congratulate him for

C

his brilliant

D

performance.

193

SKIPPED QUESTIONS 

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Next Question >

Demonstrate correct use of subject-verb agreement

Q 195

Here ____ the tomb of Allama Iqbal.

A

lies

B

lying

C

lied

D

lay

194

SKIPPED QUESTIONS  Previous QuestionNext Question 

Comprehend key vocabulary

Q 196

prune

A

lend

B

reduce

C

expand

D

prolong

195

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 197 Choose the correct sentence.

A Drinks on the menu included the following, hot chocolate, iced tea and lemonade.

B Drinks on the menu included the following hot chocolate, iced tea, and lemonade.

C Drinks on the menu included the following: hot chocolate, iced tea and lemonade.

D Drinks on the menu included the following. Hot chocolate, iced tea and lemonade

196

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Next Question >

Demonstrate correct use of articles and prepositions

Q 198

_____ ozone layer will disappear if we don't find _____ way to save it.

A The...the

B The...an

C The..a

D A... a

197

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 199

Choose the correct spelling of the word

A

adress

B

address

C

addres

D

adrrss

198

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 200

She hoped to find a new job. One that would let her earn money during the school year.

A job. One that

B job. The kind that

C job, one that

D job, so that it

199

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Fact Checking

Q 201

Fact 1 Some pens don't write Fact 2 Only blue pens write Fact 3 some writing utensils are pens If the above three statements are facts than which of the following statement will also be a fact I. Some writing utensils don't write II. Some writing utensils are blue III. Some blue writing utensils don't write

- A Only III
- B Only I and II
- C Only I
- D Only III and II

200

SKIPPED QUESTIONS 

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Next Question >

Analogies

Q 202

Durandal is to race as sleep is to

A

Winter

B

Bear

C

Dream

D

Hibernation

201

SKIPPED QUESTIONS  Previous QuestionNext Question 

Dependent Causes/ Independent Causes/

Q 203

Statement: The government has decided to make all the information related to primary education available to the general public. In the past, the general public did not have access to all these information related to primary education.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

202

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Series completion (Numbers/Letters)

Q 204

Look at this series: 80, 10, 70, 15, 60, ... What number should come next?

A

20

B

25

C

30

D

50

203

SKIPPED QUESTIONS  Previous QuestionNext Question 

Dependent Causes/ Independent Causes/

Q 205

I. The new program has been introduced with ordeal. II. The government has announced a plan on the creation of the TV programs.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

204

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Statements and Actions

Q 206

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

205

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Answer on Passage

Q 207

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A James

B Ruby

C Rachel

D Max

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SKIPPED QUESTIONS 

Verbal reasoning

Q 208

Statements Large number of Primary Schools in the rural areas is run by only one teacher. There has been a huge dropout from the primary schools in rural areas.

- A statement 1 is the cause then 2 is its effect
- B statement 2 is the cause then 1 is its effect.
- C both statements are independent causes
- D both of the statements are effect of independent causes

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Verbal Reasoning

Q 209

Language with the most alphabets is _____

A

French

B

Chinese

C

Portuguese

D

Urdu

208

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Statement and Argument

Q 210

Statement Should coal engines be replaced by electric engines in trains? Arguments (I) Yes. Coal engines cause a lot of pollution. (II) Yes. Electric engines are good on performance, easy to operate, and low on maintenance. (III) No. Pakistan does not produce enough electricity to fulfill its domestic needs also.

- A All are strong
- B Only I and II are strong
- C Only II and III are strong
- D Only I and III are strong

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Submit

Q1 In Thermodynamics zeroth law is related with

A Work

B Energy

C Thermal equilibrium

D Entropy

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Next Question ▶



Q2

The angle through which a body moves is called:

A

Angular displacement

B

Angular velocity

C

Angular acceleration

D

None of these

[< Previous Question](#)[Next Question >](#)

Q3 When $N_s > N_p$ then transformer is

A step up

B step down

C primary

D secondary

[Previous Question](#)

[Next Question](#)



Question 4/210

Q4

The SI Unit for resistance is?

A

Ohm

B

Ampere

C

Watt

D

Volts

[← Previous Question](#)

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Q5

Rectifier is a device which converts

A

AC to DC

B

DC to AC

C

AC to triangular current

D

DC to triangular current

[◀ Previous Question](#)[Next Question ▶](#)

Q6

An electron is held within electric field. What happens when electron is released?

A

it moves in the direction of electric field

B

it accelerates in the direction of electric field

C

it moves in the direction opposite to electric field

D

it accelerates in the direction opposite to electric field

[< Previous Question](#)[Next Question >](#)

Q7

Centrifuge is used to purify

A

U

B

H

C

O

D

N

[< Previous Question](#)[Next Question >](#)

Q8

Critical angle is the angle of incidence in the denser medium for which the angle of refraction in the rarer medium is equal to:...

A

0 deg

B

angle of incidence

C

twice the angle of incidence

D

90 deg

[◀ Previous Question](#)[Next Question ▶](#)



Q9

The SI Unit of electric charge is?

A

Coulomb

B

Ampere

C

Hertz

D

Volt

[< Previous Question](#)[Next Question >](#)



Q10

He-Ne laser light has wavelength of

A

RED

B

YELLOW

C

BLUE

D

ORANGE

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Q11

Electron charge in accelerating motion will produce

A

electric field

B

magnetic field

C

EM waves

D

none of these

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Q12

Beats can be used for:

A

counting the heart beat

B

tuning a string instrument

C

measuring frequency of pendulum

D

none of above

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Q13

A half wave rectifier is equivalent to

A

Clamper

B

Clipper

C

Clamper circuit with negative bias

D

Clamper circuit with positive bias

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Q14

The resistance of a wire on increasing its temperature will

A

Increase with a rise in temperature

B

Decrease with a rise in temperature

C

Will remain the same

D

Depends upon the altitude of experimentation

[< Previous Question](#)[Next Question >](#)



Q15

You have three capacitors and a battery. In which of the following combinations of the three capacitors is the maximum possible energy stored when the combination is attached to the battery?

A

in parallel

B

in series

C

either way because both combinations have the same capacitance

D

we can not determine, because presence of resistance in the circuit determines capacitance

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Q16

The graphical representation of Ohm's law is

A

Hyperbola

B

Ellipse

C

Parabola

D

Straight line

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Q17

Lenz's law provides information about direction of

A

inductance

B

induced current

C

induced flux

D

induced magnetic field

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Q18

A charged particle is moving on circular path with velocity v in a uniform magnetic field B , if the velocity of the charged particle is doubled and strength of magnetic field is halved, then radius becomes

A 8 times

B 2 times

C 4 times

D 16 times

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Q19

Angular velocity is also called as

A

Instantaneous velocity

B

Rotational velocity

C

Tangential velocity

D

Linear velocity

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Q20

Half wave rectifier passes only

A

lower half cycle

B

upper half cycle

C

both cycles

D

none of them

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Q21

Which of the following substances cannot be emitted by radioactive substances during their decay?

A

protons

B

neutrinos

C

helium nuclei

D

electrons

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Q22

A stone of 1 kg is thrown upward it reaches a max height of 5 m , work done by the gravity is

A

50 J

B

49 J

C

-49 J

D

55 J

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Q23

A solenoid 15.0 cm long has 300 turns of wire, a current 5 A flows through it. The magnitude of magnetic field inside the solenoid is

A

 $1.37 \times 10^{-7} \text{ W/m}^2$

B

 $1.37 \times 10^{-5} \text{ W/m}^2$

C

 $1.37 \times 10^{-1} \text{ W/m}^2$

D

 $1.37 \times 10^{-2} \text{ W/m}^2$ [← Previous Question](#)[Next Question →](#)



Q24

The successive distance between two crests is called?

A

time period

B

wavelength

C

Wave speed

D

Frequency

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Q25

if velocity varies with time in quadratic manner then acceleration

A

constant

B

zero

C

linearly varying

D

varies as t^3

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Q26

The nuclear forces are considered as

A

strong force

B

weak force

C

electromagnetic force

D

all of these

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Q27

An object is moving at constant speed, which of the following is always true:...

A

distance is greater than displacement

B

distance is lesser than displacement

C

distance is equal to displacement

D

we cannot answer

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Q28

If 1.002×10^6 J of thermal energy is required to melt some ice at its melting point, what is the mass of ice that melts? Specific latent heat of fusion of ice is 334 J/g

A

1 kg

B

2 kg

C

3 kg

D

4 kg

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Q29

The radioactive waste is used as ____

A

fuel

B

nuclear medicine

C

crops fertilization

D

none of these

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Q30

If Q , E and W are the parameters in cyclic process then

A

 $W=0$

B

 $Q=0=W$

C

 $E=0$

D

 $W=0$ [< Previous Question](#)[Next Question >](#)



Q31

Spectrum from H atom is

A

line

B

continuous

C

band

D

none of these

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Q32

A standing-wave pattern is formed when the length of the string is:

A

an odd multiple of quarter wavelength

B

an integral multiple of quarter wavelength

C

an integral multiple of wavelength

D

an integral multiple of half wavelength

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Q33

Half life of Au-198 is 2.7 days. What will be the average life?

A

1.9 days

B

3.9 days

C

2.9 days

D

4.9 days

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Q34

Light of wavelength 450 nm is incident on a diffraction grating on which 5000 lines/cm have been ruled. Determine the angle corresponding to third order.

A 13

B 26

C 42.5

D 39.5

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Q35

Existence of photon was confirmed by:

A

Compton

B

De' broglie

C

Einstein

D

Max planck

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Q36

Calculate the mutual inductance between two coils if a current 10 A in the primary coil changes the flux by 500 Wb per turn in the secondary coil of 200 turns.

A 10H

B 10000H

C 100H

D 1000H

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Question 37/210

Q37

Which rays need medium to travel

A

x-rays

B

beta rays

C

gamma rays

D

no radiation need medium to travel

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Q38

Transformer is based on the theory of

A

self inductance only

B

mutual inductance

C

Capacitive effect

D

all of these

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Q39

What force provides the centripetal force to planets moving around the sun?

A

coulomb force

B

gravitational force

C

magnetic force

D

none of these

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Q40

One coulomb charge is carried by:....

A

 6.25×10^{18}

B

one electron

C

one proton

D

 1.6×10^{19} [← Previous Question](#)[Next Question →](#)



Q41

An ideal gas of N molecules are enclosed in a container at a constant pressure p . The graph between volume of gas and its absolute temperature is a straight line. What is the gradient of the graph?

A $\frac{NR}{p}$

B $\frac{NR}{p}$

C $\frac{Nk}{p}$

D Nkp

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Q42

To get a peak load voltage of 40V out of a bridge rectifier, what should be the approximate rms value of secondary voltage?

A

0V

B

14.4V

C

28.3V

D

56.6 V

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Q43

If a car moves from 15 m/s to 5 m/s in 10 sec then average acceleration is

A

1 m/s²

B

2m/s²

C

5 m/s²

D

10m/s²

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Q44

What is the power of a bulb if it is operated at 220V and the current in the circuit is 1.5 Amp

A

330 watt

B

430 watt

C

530 watt

D

500 watt

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Q45

Where does the energy lost by fast moving electron goes :

A

Appears as photon

B

Appears as electron - positron pair

C

Appears as its K.E.

D

It vanishes

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Q46

KE of body is increased by 44 %, what is the percentage increase in the momentum

A

10 %

B

20 %

C

30 %

D

44 %

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Q47

A circular loop of area 0.05 m^2 rotates in a uniform magnetic field of 0.2 T . If the loop rotates about its diameter which is perpendicular to the magnetic field, find flux linked with loop when its plane is inclined 60° to the field

A

0.01 wb

B

0 Wb

C

 $8.66 \times 10^{-3} \text{ Wb}$

D

0.86 wb

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Q48

A heater is used for 5 minutes to heat 500 g of water from 20°C to 50°C. What is the power of heater? Specific heat capacity of water is 4.2 J/g°C.

A

1260 W

B

12.6 kW

C

210 kW

D

12.6 W

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Q49

One of the major reasons for heat loss in transformer is

A

Radiation loss

B

Convection loss

C

eddy current loss

D

none of these

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Q50

Manufacturing of Ammonia by Haber's process is an

A

endothermic reaction

B

exothermic reaction

C

irreversible

D

Slow

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Q51

Acetic acid derived from the word 'Acetum' which means_____?

A

Acetic acid

B

Bitter

C

Citric

D

Vinegar

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Q52

Only those substances are written in Ion Electron Method

A

which are oxidizing

B

which are reducing

C

which are not taking part in reaction

D

Which will take part in reaction

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Q53

If both alkyl groups attached to carbonyl in ketone are same then it is called as_____?

A

Mixed

B

Unsymmetrical

C

Symmetrical

D

None of these

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Q54

A piston in a cylinder is a part of

A

System

B

Surroundings

C

Boundary

D

None of These

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Q55

When an electron is added, energy is released, so electron affinity is given the

A

positive sign

B

negative sign

C

neutral

D

delta sign

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Q56

Geometrical isomerism arises due to ____?

A

Rotation around a double bond

B

Restriction of rotation around a single bond

C

Restriction of rotation around a double bond

D

Due to double bond

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Q57

With the increasing molecular mass of hydrocarbons, they changes from

A

gases to liquids

B

liquids to solids

C

both A & B

D

none of these

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Q58

The region where probability of finding the electron is maximum is called as

A

Nucleus

B

Atom

C

Orbital

D

Nodal plane

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Q59

The change in concentration of reactants or products per unit time is

A

rate constant

B

reaction speed

C

Rate of a reaction

D

All of these

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Q60

In IUPAC nomenclature alkyl halides are named as_____?

A

Alkyl Halogens

B

HalogenoAlkanes

C

Haloalkanes

D

Alkyl halides

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Q61

Which of the following compound is present in camphor and menthone?

A

Aldehyde

B

Alcohol

C

Esters

D

Ketones

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Q62

Value of current in a short circuit is _____

A

Infinite

B

zero

C

minimum

D

maximum

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Q63

H-bonding is a type of _____?

A

Chemical bonding

B

Ion dipole force

C

Dipole-dipole force

D

Polar force

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Q64

S-S bond is present in which of the ion pairs

A

S₂O₇²⁻, S₂O₃²⁻

B

S₄O₆²⁻, S₂O₇²⁻

C

S₂O₇²⁻, S₂O₈²⁻

D

S₄O₆²⁻, S₂O₃²⁻

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Q65

If momentum is increased by 20% then K.E. increase by :

A

0.44

B

0.55

C

0.66

D

0.77

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Q66

Velocity is a

A

tensor

B

vector

C

scalar

D

None of these

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Q67

Development of an egg into zygote without fertilization is called?

A

Parthenocarpy

B

Apomixis

C

Parthenogenesis

D

all of these

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Q68

There is one lone pair present in H_3O^+ , it cannot act as _____?

A

Electrophile

B

Lewis acid

C

Nucleophile

D

Strong acid

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Q69

When two atoms bonded to form a stable compound, the attractive forces will ___ repulsive forces and the potential energy of the system will be ___ -

A recessive, higher

B dominate, minimum

C dominate, maximum

D recessive, lower

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Q70

Hydrogenation of alkenes takes place in the presence of ____?

A

Nickel

B

Gold

C

Palladium

D

Raney Nickel

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Q71

Aldehydes are obtained by the oxidation of which of the following ?

A

Secondary alcohols

B

Tertiary alcohols

C

Dihydric alcohol

D

Primary alcohols

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Q72

Fractions of Crude petroleum can be obtained by using_____?

A

Destructive distillation

B

Fractional distillation

C

Vacuum distillation

D

Distillation

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Q73

The enthalpy change of a reaction which involve the formation of atom from its elements at S.T.P is called as

A

Enthalpy of formation

B

Enthalpy of combustion

C

Enthalpy of neutralization

D

Enthalpy of sublimation

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Q74

Acyclic hydrocarbons are also called as_____?

A

Closed chain hydrocarbons

B

Open chain hydrocarbons

C

Ring compounds

D

Alicyclic compounds

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Q75

Standard Reduction potential is found by dipping the electrode in its own ion with molarity equals to

A

0.1

B

1

C

1.5

D

0

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Q76

All the three p-orbitals have same energy in the absence of magnetic field and are called _____orbital's

A

generated

B

delocalized

C

degenerated

D

localized

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Q77

The relative abundance of isotopes of elements is measured by

A

atomic spectroscopy

B

ionic spectroscopy

C

mass spectroscopy

D

mass spectrometry

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Q78

First Law of thermodynamics is

A

$$\Delta E = \Delta H$$

B

$$\Delta E = q + p$$

C

$$\Delta E = q + w$$

D

$$\Delta E = -P\Delta V$$

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Q79

London dispersion forces are the only forces present among

A

atoms of helium in gaseous state at high temperature

B

molecules of water

C

molecules of solid iodine

D

molecules of HCl gas

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Q80

Energy can be transferred to a system by

A

Heat

B

Work

C

Heat & Work

D

Force

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Q81

when water freezes at 0°C , spaces occur between its molecules which results in its ____

A

decrease in volume

B

decrease in density

C

increase in density

D

increase in volume

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Q82

Which of the substance has the highest melting point?

A

CO2

B

H2O

C

NaCl

D

MgO

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Q83

1 Pascal is equal to

A

1 Nm⁻²

B

76 trr

C

1 1325 pa

D

all of these

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Q84

The melting points and boiling points up to the middle of 3d- series

A

Increases

B

Decreases

C

Remain same

D

No regular trend

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Q85

In chemical combination of H-atom with sodium. It gains an electron but in case of HF, H-atom

A

gains 2 e⁻

B

lose 1 e⁻

C

lose 2 e⁻

D

gain 2 e⁻

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Q86

Which one of the following benzene molecule have?

A

Two double bonds

B

Delocalized pi-electron charge

C

Three double bonds

D

One sigma bond

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Q87

Which one is the major product when ethene react with Br_2 in H_2O ?

A

Dibromoethane

B

Bromoethane

C

Hydroxy Bromoethane

D

Hydroxy Bromoethane

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Q88

Which of the following shows isomerism?

A

Methane

B

Ethane

C

Propane

D

Butane

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Q89

Energy changes in cyclic process is always

A

Unity

B

Zero

C

Positive

D

Negative

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Q90

The ionization energy of group __shows abnormal trend

A

3A & 4A

B

5A & 6A

C

6A & 4A

D

3A & 6A

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Q91

Enzymes are _____?

A

Non-specific in action

B

Very reactive

C

Highly specific

D

Volatile

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Q92

Solubility of carboxylic acids _____?

A

Decreases with increase of volume

B

Decreases with increase in molecular mass

C

Increases with increase in molecular mass

D

None of these

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Q93

Crystalline Solids are made up of

A

Atoms

B

Molecules

C

Ions

D

All of these

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Q94

Heavy water contain isotope of Hydrogen

A

protium

B

deuterium

C

tritium

D

both A & C

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Q95

Which instrument is used to measure the vapour pressure of a liquid?

A

Barometer

B

Manometer

C

Thermometer

D

Sphygmometer

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Q96

Fumaric acid is converted into _____ in the presence of fumarase enzyme.

A

Oxalic acid

B

Phthalic acid

C

Maleic acid

D

Malonic acid

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Q97

In Down Cells Cathode is made up of

A

Graphite

B

Copper

C

Iron

D

Inert material

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Q98

If K_p and K_c have same values Δn will be

A

Maximum

B

Minimum

C

Zero

D

Negligible

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Q99

Kekule structure of benzene failed to explain:

A

Benzene reactivity

B

That benzene has dual character

C

That benzene has less heat of formation

D

All

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Q100

H-Bonding act as a bridge between _____?

A

Two electronegative atoms

B

Electronegative and H atoms

C

Two H atoms

D

None of these

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Q101

Which of the following is an example of Tertiary alcohols?

A

2 methyl-3-ethylpentane

B

3-ethyl-3-hexanol

C

2-methyl-4-hexanol

D

isopropyl alcohol

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Q102

It is not possible for us to measure exact position and exact momentum of electron simultaneously is the statement of

A

de-Broglie

B

Mosley

C

Heisenberg

D

Neil Bohr

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Q103

The central atom along with ligands is called

A

Complex ion

B

Coordination sphere

C

Ligand

D

Complex compound

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Q104

Which gases are used as mixture for breathing in sea?

A

Oxygen and nitrogen

B

Carbon dioxide and oxygen

C

Helium and oxygen

D

Helium and hydrogen

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Q105

What type of molecule is Chlorophyll?

A

Inorganic

B

Cationic

C

Anionic

D

Organic

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Q106

The gap in the myelin sheath between adjacent Schwann cells is called?

A

dendrite

B

soma

C

node of ranvier

D

stroma

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Q107

Which of the following bacteria do not commonly have a flagella?

A

cocci

B

bacilli

C

streptobacilli

D

vibrio

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Q108

In biennials and perennials, low temperature stimulus is not received by which of the following?

A

Shoot apex of mature stem

B

Embryo of the seed

C

Leaves of the plants

D

all of these

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Q109

The genetic change in a population caused by natural selection is called?

A

polymorphism

B

specialization

C

gene linkage

D

adaptation

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Q110

If a genetic shift occurs within a population the mutant allele becomes?

A

genotype

B

phenotype

C

wild type

D

all of these

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Q111

An increase in plant girth due to activity of which of the following?

A

Cork cambium

B

Vascular cambium

C

pith

D

both a and b

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Q111

An increase in plant girth due to activity of which of the following?

A

Cork cambium

B

Vascular cambium

C

pith

D

both a and b

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Q111

An increase in plant girth due to activity of which of the following?

A

Cork cambium

B

Vascular cambium

C

pith

D

both a and b

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Q112

Irreversible modifications require the synthesis of which of the following?

A

enzymes

B

carbohydrates

C

vitamins

D

proteins

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Q113

The path taken by the nerve impulses in a reflex is called a

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

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Q114 Mumps and Measles are caused by which virus?

A adenovirus

B Pox virus

C influenza Virus

D paramyxoviruses

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Q115

All enzymes are:

A

globular proteins

B

Fibrous proteins

C

Glycoproteins

D

Lipoproteins

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Q116

In parthenocarpy which levels are high in ovaries?

A

gibberellins

B

cytokinins

C

auxins

D

all of these

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Q117

The attraction between water molecules and cell wall of xylem is termed as:

A

cohesion

B

tension

C

adhesion

D

imbibition

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Q118

In all plants the major sites of photosynthesis are?

A

Leaf

B

Stems

C

Roots

D

Branches

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Q119

What is Hepatitis D also known as?

A

Serum hepatitis

B

Infectious hepatitis

C

Bacterial hepatitis

D

Delta hepatitis

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Q120 Assymetrical body is a feature of phylum _____.

A Annelida

B Arthropoda

C Porifera

D Cnidaria

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Q121 Hemoglobin synthesis takes place in all except___

A reticulocytes

B erythrocytes

C basophilic erythroblasts

D none of these

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Q122

Which of the following fishes contained lungs?

A

lamprey

B

perch

C

plaice

D

dipnoi

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Q123

The fluidity of the plasma membrane increases with which of the following?

A

Increase in saturated fatty acids in the membrane

B

Increase in glycolipid content in the membrane

C

Increase in phospholipid content in the membrane

D

Increase in unsaturated fatty acids in the membrane

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Q124

Which structure differentiates eukaryotic and prokaryotic cells?

A

Ribosomes

B

cell wall

C

cell membrane

D

nucleus

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Q125

During muscle contraction, which parts of a sarcomere change in length?

A

H zone and myosin

B

H zone and actin

C

I band and A band

D

H zone and I band

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Q126

The largest lobe of the brain is:

A

Frontal

B

Parietal

C

Temporal

D

Occipital

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Q127

When was the presence of small filter passing, ultramicroscopic agent in yellow fever disease was discovered?

A

1989

B

1901

C

1900

D

1889

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Q128

Which of the following is evidence of a common ancestor?

A

Morphological similarities

B

Fossil record

C

Vestigial characteristics

D

all of these

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Q129

Flagella might have arisen through the ingestion of which of the following?

A

Cyanobacteria

B

Chlamydomonas

C

Paramecium

D

Spirochetes

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Q130

Study of fossils is called

A

mammalogy

B

palaeontology

C

herpetology

D

ornithology

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Q131

If the enzyme change the active site the rate of reaction will undergo which of the following changes?

A

decrease

B

increase

C

remains same

D

none of these

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Q132

This carries the egg to the uterus.

A

Fallopian tube

B

ovary

C

cervix

D

vagina

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Q133

80% of the food of sponges consists of which of the following?

A

Detrital organic particles

B

Zooplankton and small animal

C

Phytoplanktons

D

all of these

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Q134

What type of the phage is a T2 Phage?

A

ssDNA Phage

B

ss RNA Phage

C

dsDNA phage

D

ds RNA Phage

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Q135

All of the following coelenterates show alternation of generation except?

A

hydra

B

obelia

C

aurelia

D

all of these

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Q136

A pea plant with yellow seed was crossed to a plant having green seeds. What will happen in F₁; if plants are true breeding?

A Half of seeds will be yellow

B All the seeds will be green

C Both will be present in ratio of 1:2:1

D All seeds will be yellow

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Q137

Stomata cover only what portion of the leaf surface?

A

10%

B

50%

C

1-2%

D

0.3 to 0.4%

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Q138

Bacteriochlorophylls does not include which of the following?

A

Chlorophyll e

B

Chlorophyll b

C

chlorophyll c

D

all of these

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Q139

Animal fats are in which state at room temperature?

A

solid

B

liquid

C

gas

D

plasma

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Q140

Most multicellular organisms are which of the following?

A haploid

B diploid

C single nucleus

D none of these

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Q141 HIV glycoprotein is composed of ____ subunits

A 11

B 12

C 13

D 14

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Q142

The number of water soluble vitamins is?

A

3

B

6

C

9

D

12

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Q143

Thymus is found in human body in ---

A

in the medulla oblongata

B

in the mediastinum of the upper thorax

C

both A and B are correct

D

None of these

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Q144

Due to the insolubility of large organic molecules, what function do they mainly perform?

A

Structure of cells

B

enzymatic function

C

Metabolic function

D

both a and b

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Q145

Fertilization of ovum occurs during which of the following?

A

in uterus

B

in ovary

C

In distal part of oviduct

D

In proximal part of oviduct

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Q146

What is the final product of the krebs cycle?

A

malate

B

succinate

C

oxaloacetate

D

fumarate

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Q147

The outer portion of spinal cord is composed of:

A

White matter

B

Gray matter

C

Cell bodies

D

non-myelinated nerve fibres

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Q148

The oviduct generally called:

A

fallopian tube

B

uterine tube

C

Both A and B

D

uterus

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Q149

Which of the following is involved in sleeping and waking?

A

thalamus

B

brain stem

C

hypothalamus

D

cerebellum

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Q150

Each skeletal muscle fiber is controlled by a neuron at a single _____.

A

Synaptic cleft

B

neuron

C

neuromuscular junction

D

Both B and C

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Q151

A key property of a living being is that it contains _____ for making its protein

A

amino acids

B

mitochondria

C

mRNA

D

ribosomes

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Q152

The product of succinic acid by the action of the enzyme is which of the following?

A

fumaric acid

B

malonic acid

C

citric acid

D

pyruvic acid

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Q153

Which of these functions will be affected if the medulla oblongata is damaged?

A

Thermoregulation

B

Vision

C

Memory

D

Tactile sensation-response when pricked with a needle

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Q154

The animals that have features of both mammals and reptiles are?

A

duckbill platypus

B

spiny anteater

C

wolves

D

both a and b

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Q155

Genes for colour blindness form _____ linkage group on human _____ chromosome

A

2,Y

B

1,Y

C

2,X

D

1,X

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Q156

To synthesis 10g of glucose, how much energy is essentially required?

A

727

B

712

C

719

D

717.6

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Q157

Complete breakdown of glucose molecule takes place in which of the following?

A

Alcoholic fermentation

B

Lactic acid fermentation

C

aerobic respiration

D

none of these

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Q158

The last common ancestor of humans is known to be which of the following?

A

Homo neanderthalensis

B

Lemuroidea

C

Dromaeosaurus

D

Pan troglodytes

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Q159

Structures that were once functional in the past but no longer serve a purpose due to evolutionary adaptations and physiological changes are referred to as?

A

vestigial

B

analogous structures

C

homologous structures

D

none of these

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Q160

In humans, fertilization involves the addition of chromosomes from the sperm and the egg. The resulting cell is called a?

A

zygote

B

egg

C

embryo

D

fetus

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Q161

The uterine tube opens into:

A

uterus

B

ovary

C

cervix

D

oviduct

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Q162

Which of the following plays vital role in defense activity of macrophages?

A

Lysozymes

B

Lysosomes

C

mitochondria

D

nucleus

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Q163

Cytoplasmic streaming movement causes flow of all of the following except?

A

Glucose and salts

B

mitochondria

C

Golgi

D

RER

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Q164

Which of the following movements are possible in pivot joint?

A

flexion and extension

B

adduction and abduction

C

rotation

D

extension flexion and rotation

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Q165

Each Kreb's cycle forms how many molecules of NADH?

A

3

B

2

C

4

D

1

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Q166

He _____ books these days.

A

sells

B

sell

C

has sold

D

sold

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Q167

_____ butter is melting

A

A

B

An

C

The

D

no article

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Q168

His son _____ (go) to school regularly.

A

go

B

goes

C

going

D

gone

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Q169

Sara denied _____ (leave) the car window open.

A

leave

B

leaving

C

left

D

to have left

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Q170

Choose the correct sentence.

A I completed the homework for English, History, Math and Science only in the span of an hour.

B I completed the homework for English History, Math, and Science only in the span of an hour!

C I completed the homework for english, history, math, and science only in the span of an hour.

D I completed the homework for English History Math and Science only in the span of an hour.

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Q171

A bouquet of flowers _____ required for the event.

A

are

B

have

C

has

D

is

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Q172

There has been an increase in the price of oil in _____ weeks.

A

just passed

B

some

C

yesteradys

D

recent

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Q173

By the next month, we shall _____ (complete) the project.

A

has completed

B

completed

C

completed

D

have completed

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Q174

Children usually _____ a noise.

A

made

B

makes

C

are making

D

make

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Q175

permissive

A

relaxed

B

lenient

C

ungrudging

D

immoral

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Q176

_____ his parents allow him or not, John intends to go to the party.

A

Whether

B

While

C

Although

D

Despite

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Q177

We must go (A)/ and congratulate him for (B)/ his brilliant (C)/ performance. (D)

A

We must go

B

and congratulate him for

C

his brilliant

D

performance.

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Q178

Here ____ the tomb of Allama Iqbal.

A

lies

B

lying

C

lied

D

lay

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Q179

prune

A

lend

B

reduce

C

expand

D

prolong

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Q180

_____ ozone layer will disappear if we don't find _____ way to save it.

A

The...the

B

The...an

C

The...a

D

A... a

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Q181

Choose the correct spelling of the word

A

adress

B

address

C

addres

D

adress

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Q182

She hoped to find a new job. One that would let her earn money during the school year.

A

job. One that

B

job. The kind that

C

job, one that

D

job, so that it

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Q183

Fact 1 Some pens don't write Fact 2 Only blue pens write Fact 3 some writing utensils are pens If the above three statements are facts than which of the following statement will also be a fact I. Some writing utensils don't write II. Some writing utensils are blue III. Some blue writing utensils don't write

A

Only III

B

Only I and II

C

Only I

D

Only III and II

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Q184

Durandal is to race as sleep is to

A

Winter

B

Bear

C

Dream

D

Hibernation

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Q185

Statement: The government has decided to make all the information related to primary education available to the general public. In the past, the general public did not have access to all these information related to primary education.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

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Q186

Look at this series: 80, 10, 70, 15, 60, ... What number should come next?

A

20

B

25

C

30

D

50

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Q187

I. The new program has been introduced with ordeal. II. The government has announced a plan on the creation of the TV programs.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

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Q188

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A James

B Ruby

C Rachel

D Max



Q188

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A James

B Ruby

C Rachel

D Max



Q189

Statements Large number of Primary Schools in the rural areas is run by only one teacher. There has been a huge dropout from the primary schools in rural areas.

A

statement 1 is the cause then 2 is its effect

B

statement 2 is the cause then 1 is its effect.

C

both statements are independent causes

D

both of the statements are effect of independent causes

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Q190

Language with the most alphabets is _____

A

French

B

Chinese

C

Portuguese

D

Urdu

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Q191

Carbonates of sodium are stable but carbonates of lithium are less stable because of

A

Low electronegativity

B

Low electro positivity

C

Low charge density

D

Not known yet

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Q192

Cellular organelles that interact with hydrogen peroxide are called?

A

Glyoxysomes

B

Lysosomes

C

Ribosomes

D

Peroxisomes

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Q193

Work done by non conservative force is

A

Reversible

B

Non-Reversible

C

can be both

D

none of them

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Q194

Organic compounds obtained from

A

living things

B

Non living

C

fossils

D

sea's water

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Q195

The Davisson Germer experiment is used to explain

A

interference

B

polarization

C

diffraction

D

none of these

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Q196

What is the relationship between boiling point and External pressure?

A

Boiling point increases if external pressure is increased

B

boiling point increases if external pressure decreases

C

Boiling point is not affected by external pressure

D

Boiling point decreases if external pressure increased

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Q197

Wavelength of a sound wave in air is 10 cm, what is the frequency of the sound wave?

A

33 Hz

B

330 Hz

C

3300 Hz

D

33000 Hz

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Q198

Which of the following alkyl halide give S_N1 reactions?

A

1-chloropropane

B

2-chloropropane

C

n-butyl chloride

D

2-methyl,2-chloropropane

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Q199

The value of permittivity of free space is:...

A

 $8.85 \times 10^{-12} \text{ C}^2 / (\text{N} \cdot \text{m}^2)$

B

 $8.85 \times 10^{-12} (\text{N} \cdot \text{m}^2) / \text{C}^2$

C

 $9.9 \times 10^{-12} \text{ C}^2 / (\text{N} \cdot \text{m}^2)$

D

 $9.9 \times 10^{12} \text{ C}^2 / (\text{N} \cdot \text{m}^2)$ [< Previous Question](#)[Next Question >](#)



Q200

Acetaldehyde in the presence of $\text{Con.H}_2\text{SO}_4$ undergoes _____?

A

Dehydration

B

Polymerization

C

Condensation

D

Oxidation reaction

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Q201

What is the structure in prokaryotic cells that often holds antibiotic resistance genes?

A

Nucleus

B

plasmid

C

mitochondria

D

both a and b

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Q202

_____ is a competitive inhibitor of succinic dehydrogenase.

A

Malonic acid

B

Malic acid

C

Fumaric acid

D

Acetic acid

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Q204

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows



Q205

The brain is protected and brain tissue is provided with nutrients and oxygen by?

A

cranium

B

meninges

C

skull

D

ventricles

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Q206

Statement Should coal engines be replaced by electric engines in trains? Arguments (I) Yes. Coal engines cause a lot of pollution. (II) Yes. Electric engines are good on performance, easy to operate, and low on maintenance. (III) No. Pakistan does not produce enough electricity to fulfill its domestic needs also.

A

All are strong

B

Only I and II are strong

C

Only II and III are strong

D

Only I and III are strong

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Q207

The optimum pH for the functioning of the enzyme pepsin is?

A

2

B

3

C

4

D

5

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Q208

Choose the correct spelling of the word

A

arround

B

arond

C

arund

D

around

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Q209

Most big cities have _____ university.

A

a

B

an

C

the

D

no article

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Q210

Choose the correct sentence.

A

Drinks on the menu included the following, hot chocolate, iced tea and lemonade.

B

Drinks on the menu included the following hot chocolate, iced tea, and lemonade.

C

Drinks on the menu included the following: hot chocolate, iced tea and lemonade.

D

Drinks on the menu included the following. Hot chocolate, iced tea and lemonade

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